

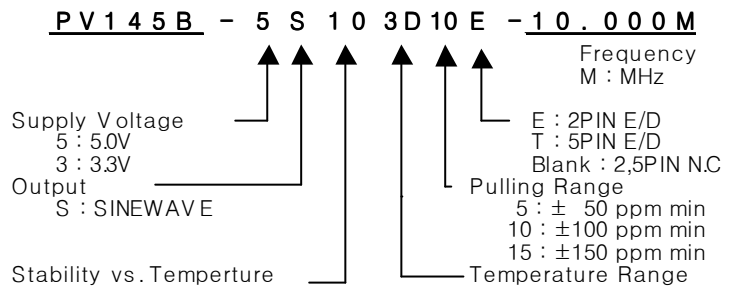
VCXO

PV145B Series

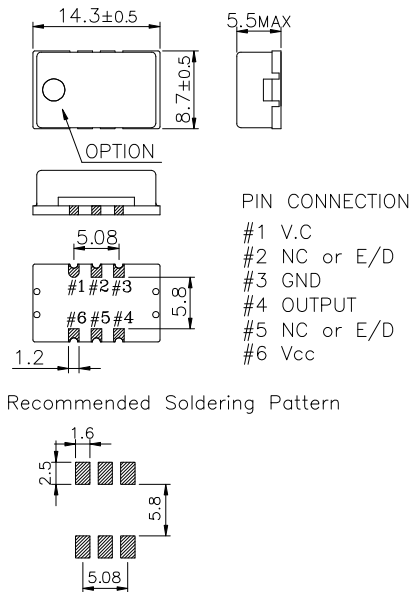
Sinewave

6PAD SMD PACKAGE

* PART NUMBERING GUIDE



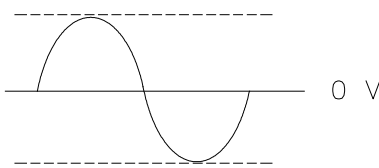
MECHANICAL DIMENSIONS



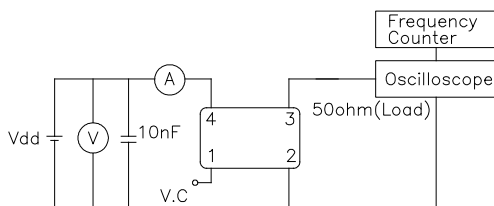
ELECTRICAL SPECIFICATION

Frequency range	10.000MHz to 50.000MHz All combination of Frequency range Vs. Package type might not be available ,please contact factory																		
Frequency Stability vs. Temperature vs. Aging	± 10 ppm to ±50ppm ±3.0 ppm max/ year																		
Temperature Range Operating Storage	See Table 2 -55°C to 105°C																		
Supply Voltage	3.3V ± 5% 5.0V ± 5%																		
Input Current	<table border="1"> <tr> <td></td> <td>3.3V</td> <td>5.0V</td> </tr> <tr> <td>fo ≤ 25.000MHz</td> <td>15mA</td> <td>20mA</td> </tr> <tr> <td>fo ≤ 50.000MHz</td> <td>25mA</td> <td>30mA</td> </tr> <tr> <td>fo ≤ 80.000MHz</td> <td>35mA</td> <td>50mA</td> </tr> <tr> <td>fo ≤ 125.000MHz</td> <td>40mA</td> <td>60mA</td> </tr> <tr> <td>fo ≤ 190.000MHz</td> <td>45mA</td> <td>70mA</td> </tr> </table>		3.3V	5.0V	fo ≤ 25.000MHz	15mA	20mA	fo ≤ 50.000MHz	25mA	30mA	fo ≤ 80.000MHz	35mA	50mA	fo ≤ 125.000MHz	40mA	60mA	fo ≤ 190.000MHz	45mA	70mA
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Output characteristics	<p style="text-align: center;">Sinewave</p> <table border="1"> <tr> <td>Level</td> <td>3.3V</td> <td>0 dBm typ</td> </tr> <tr> <td></td> <td>5.0V</td> <td>10 dBm typ</td> </tr> <tr> <td>Load</td> <td colspan="2">50Ω</td> </tr> </table>	Level	3.3V	0 dBm typ		5.0V	10 dBm typ	Load	50Ω										
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	5.0V	10 dBm typ																	
Load	50Ω																		
Pull Characteristics																			
Pulling Range	±50ppm / ±100 / ±150 ppm min Wide pulling range : contact company																		
Control Range	1.65V ± 1.5V (Vdd : 3.3V) 2.5V ± 2.5V (Vdd : 5.0V)																		

OUTPUT WAVEFORM



TEST CIRCUIT



ENVIROMENTAL & MECHANICAL SPECIFICATION

Shock	MIL-STD-883C, Method 2002, Condition B
Vibration	MIL-STD-883C, Method 2007, Condition A
Solderability	MIL-STD-883C, Method 2003
Seal integrity	MIL-STD-883C, Method 1014, Condition C & A2
Marking	MIL-STD-202F, Method 215

TABLE1

Symbol	Stability
10	± 10ppm
15	± 15ppm
20	± 20ppm
30	± 30ppm
50	± 50ppm
100	±100ppm

TABLE2

Symbol	Temp.	Symbol	Temp.
0	0°C	A	50°C
1	-10°C	B	60°C
2	-20°C	C	70°C
3	-30°C	D	75°C
4	-40°C	E	80°C
		F	85°C